

LIMITED WARRANTY

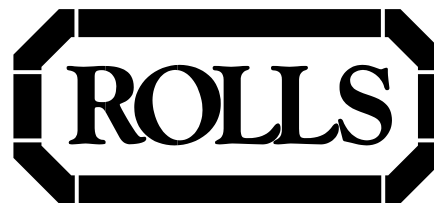
This product is warranted to the original consumer purchaser to be free from defects in materials and workmanship under normal installation, use and service for a period of one (1) year from the date of purchase as shown on the purchaser's receipt.

The obligation of Rolls Corporation under this warranty shall be limited to repair or replacement (at our option), during the warranty period of any part which proves defective in material or workmanship under normal installation, use and service, provided the product is returned to Rolls Corporation, **TRANSPORTATION CHARGES PRE-PAID**. Products returned to us or to an authorized Service Center must be accompanied by a copy of the purchase receipt. In the absence of such purchase receipt, the warranty period shall be one (1) year from the date of manufacture.

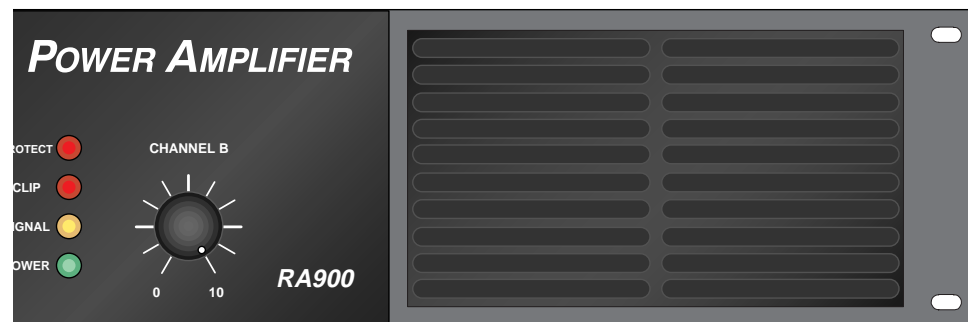
This warranty shall be invalid if the product is damaged as a result of defacement, misuse, abuse, neglect, accident, destruction or alteration of the serial number, improper electrical voltages or currents, repair, alteration or maintenance by any person or party other than our own service facility or an authorized Service Center, or any use violative of instructions furnished by us.

This one-year warranty is in lieu of all expressed warranties, obligations or liabilities. **ANY IMPLIED WARRANTIES, OBLIGATIONS, OR LIABILITIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED IN DURATION TO THE ONE YEAR DURATION OF THIS WRITTEN LIMITED WARRANTY.** Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

IN NO EVENT SHALL WE BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WHATSOEVER. Some states do not allow the exclusion or limitation of special, incidental or consequential damages so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



RA900 PROFESSIONAL POWER AMPLIFIER



ROLLS CORPORATION
SALT LAKE CITY, UTAH
11/99

OWNERS MANUAL

Power Output, Stereo:	570 W RMS/ch. 2Ω 410 W RMS/ch. 4 Ω 260 W RMS/ch. 8 Ω
Bridged:	1100 Watts RMS 4 Ω 850 Watts RMS 8 Ω
Input Connectors:	1/4" TRS balanced and XLR balanced
Output Connectors:	1/4" and 5-way binding posts
Sensitivity:	0.9 V rms 0 dB V
THD:	<.05% (20Hz - 20 kHz) @ rated output, 8 Ω
Frequency response:	@ 1 Watt rms 8 Ω ; 10Hz to 40kHz @ rated output, 8 Ω ; 20Hz to 20kHz
Hum and Noise:	100 dB, unweighted
Power Consumption:	7A and 120 VAC
Cooling System:	2 speed fan
Transformer:	Toroidal
Size:	19" x 3.5" x 15.9" (48.3 x 8.8 x 40.5 cm)
Weight:	31 lbs (14 kg)

channel, as well as sets it for either a 50Hz or 30Hz rolloff. Always use the 50Hz setting if you are using this amplifier to drive a distributed line system (also known as a 70 Volt line).]

PROTECT INDICATORS

The RA900 has two protection modes; 1. Overload and 2. Thermal. In the event of signal overload the CLIP and PROTECT LEDs will light and the output of the amplifier will be limited. If the output is short circuited, the output level LEDs go out, the PROTECT led will light, and the output of the amplifier will be muted. Check the speaker wiring for shorts. The unit's circuitry is protected from overheating by a variable-speed fan. However, if the heatsink temperature rises above 90 degrees C, the output will mute until the amplifier cools down.

The RA900 input circuitry is isolated by 10K ohm resistors. An ultrasonic network decouples RF from the output and helps keep the amplifier stable with reactive loads.

INTRODUCTION

Thank you for your purchase of the ROLLS RA900 Professional Power Amplifier. The RA900 Power Amplifier is a two channel amp with two 410 watt RMS - 4 ohm outputs via 5-way binding posts. It may be bridged and connected to a 4 or 8 ohm load supplying up to 1100 Watts or 850 Watts respectively. The unit is housed in a painted steel chassis and includes a special high performance transformer, and a fused power line. The RA900 is ideal for DJs, musicians, or other sound reinforcement applications such as powering front-of-house speakers or monitors.

INSPECTION

- 1. Unpack and inspect the RA900 box and package. If obvious physical damage is noticed, contact the carrier immediately to make a damage claim. We suggest saving the shipping carton and packing materials for safely transporting the unit in the future.
- 2. Please complete the Warranty Registration Card and return it to the factory.

Table of Contents			
INTRODUCTION	1	INSPECTION	1
INSTALLATION	1	FRONT PANEL	2
REAR PANEL	2	OPERATION	3
STEREO	3	BRIDGED	3
CONNECTION	3	INPUTS	3
OUTPUTS	3	GROUND LIFT	3
OPERATING VOLTAGE	3	LOW-CUT FILTER	3/4
PROTECT INDICATORS	4		
SPECIFICATIONS	5		
WARRANTY	Back Cover		

INSTALLATION

Connect the power cord to an AC power source, connect the input to the signal source and to the RA900 via the XLR or 1/4" input jacks. Turn the Volume controls fully counterclockwise (off), and turn on the power switch, the power LED should light. With the program material running, slowly increase the Volume controls until the desired level of sound is present. There is a two-second turn-on delay provided to prevent possible speaker damage in case all equipment is on a signal power strip.

DESCRIPTION

FRONT PANEL



POWER: Applies power to the RA900 when connected to a properly grounded and powered ac outlet.

CHANNEL 1 / 2 LEVEL CONTROLS: Adjust the output level of the indicated channel. When in Bridged mode, Channel 1 control adjusts the output level.

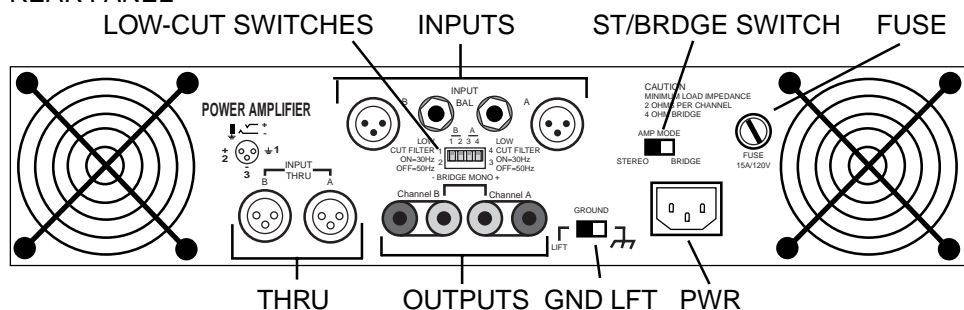
POWER LED: Indicates the RA900 is connected to an ac outlet and the power is on.

SIGNAL LED: indicates that signal is present in the indicated channel.

CLIPLED: Indicates overload in the indicated channel

PROTECT LED: Indicates that the indicated RA900 channel has gone into PROTECT Mode - the output will shut off.

REAR PANEL



LOW-CUT SWITCHES: Connects or disconnects the low-cut filters.

INPUTS: XLR and 1/4" TRS input jacks.

ST/BRDGE SWITCH: Selects either Stereo or Bridged mode.

FUSE: Contains the 12A 250V fuse

THRU: Male XLR jacks - hard-wired to the input jacks.

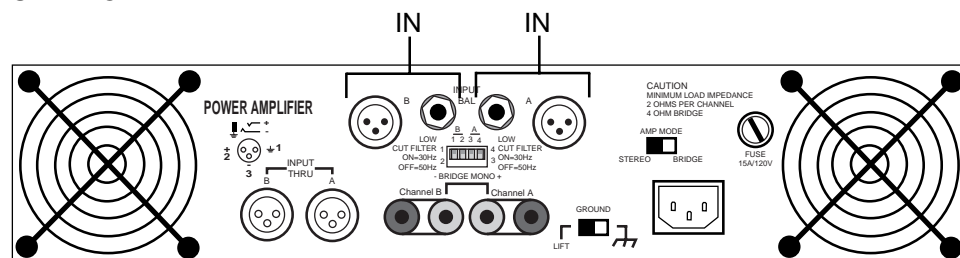
OUTPUTS: 5-Way binding post output terminals

GND LFT: Connects or disconnects the output ground to chassis ground.

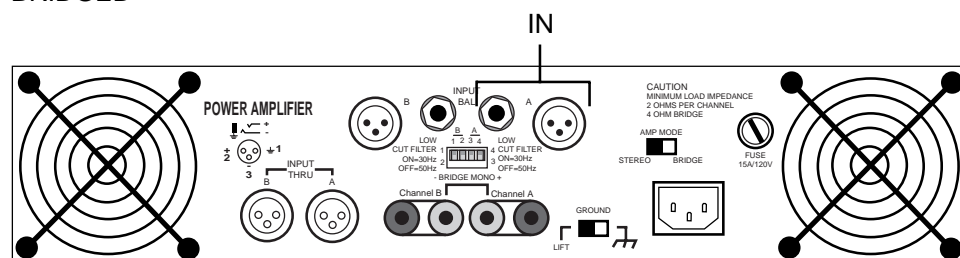
PWR: Connects to the power cable.

OPERATION

STEREO



BRIDGED



CONNECTION

Connect the amplifier in either Stereo or Bridged Mono mode as shown above. Turn the unit off before making any connection changes.

INPUTS

The RA900 inputs are XLR balanced, or 1/4" unbalanced.

OUTPUTS

The output terminals take a standard banana type plug, or they may be unscrewed so the end of the wire may be stripped and inserted into the hole on the top of the terminal - then tightened.

GROUND LIFT

The Ground Lift switch has been provided to disconnect the circuit ground from chassis ground. This may help eliminate unwanted ground hum or buzz.

OPERATING VOLTAGE

The serial number of your RA900 will indicate the correct AC operating voltage. Connecting the unit to the wrong voltage may damage the amplifier.

LOW CUT FILTER

The Low Cut Filter removes ultra-low frequency content from the audio signal that could possibly damage or cause distortion in a loudspeaker system. The DIP switch on the rear panel enables or disables the filter independently for each